SFUND RECORDS CTR
2373565

***** CONFIDENTIAL *****
***** PREDECISIONAL DOCUMENT *****

SUMMARY SCORESHEET FOR COMPUTING PROJECTED HRS SCORE

SITE NAME: United States Coast Guard Base Honolulu

CITY: Honolulu **COUNTY:** Honolulu

EPA ID #: HID984469890 **EVALUATOR:** John P. Zwierzycki

JOB #: 4162311.84 **SCORE DATE:** 5/6/94

LATITUDE: 21° 18' 36" N **LONGITUDE:** 157° 52' 34" W **T/R/S** N/A / N/A / N/A

THIS SCORESHEET IS FOR A: ☐ PA ☐ SI ☐ ESI ☐ SI Sum ☐ PA Sum ☒ Other (Specify)
Federal Facility PA Review

RCRA STATUS (check all that apply):
☒ Generator
☐ Small Quantity Generator
☒ Transporter
☐ TSDF
☐ Not listed in RCRA Database as of (date of print out) _____

STATE SUPERFUND STATUS

☐ BEP (date) _____ ☐ WQARF (date) _____

☒ No State Superfund Status (date) 5/6/94

	S pathway	S^2 pathway
Groundwater Migration Pathway Score (S_{gw})	16.82	282.91
Surface Water Migration Pathway Score (S_{sw})	*	
Soil Exposure Pathway Score (S_s)	*	
Air Migration Pathway Score (S_a)	*	
$S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2$		282.91
$(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		70.73
$\sqrt{(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4}$		8.41

Pathways not assigned a score (explain):

* Pathways evaluated qualitatively not quantitatively. Pathways not evaluated are not significant pathways of concern because of a lack of documentation to support a release of contaminants to the pathway and/or a lack of a significant target population.

GROUNDWATER MIGRATION PATHWAY SCORESHEET

Factor Categories and Factors

Likelihood of Release	Maximum Value	Projected Score	Rationale	Data Qual.
1. Observed Release	550	0	GW-1	E
2. Potential to Release				
2a. Containment	10	10	GW-2	H
2b. Net Precipitation	10	1	GW-3	H
2c. Depth to Aquifer	5	1	GW-4	E
2d. Travel Time	35	15		
2e. Potential to Release [lines 2a x (2b+2c+2d)]	500	170		
3. Likelihood of Release (higher of lines 1 or 2e)	550	170		
Waste Characteristics				
4. Toxicity/Mobility	a	100	GW-5	H
5. Hazardous Waste Quantity	a	10	GW-6	H
6. Waste Characteristics (lines 4x5, then use table 2-7)	100	6		
Targets				
7. Nearest Well	50	5	GW-7	H
8. Population [d]				
8a. Level I Concentrations	b	0	GW-1	
8b. Level II Concentrations	b	0	GW-1	
8c. Potential Contamination	b	1,355.6	GW-8	E
8d. Population (lines 8a+8b+8c)	b			
9. Resources	5	0	GW-9	E
10. Wellhead Protection Area	20	0	GW-10	
11. Targets (lines 7+8d+9+10)	b	1,360.6		
Likelihood of Release				
12. Aquifer Score [(lines 3 x 6 x 11)/82,500] [c]	100	16.82		

Groundwater Migration Pathway Score

13. Pathway Score (Sgw), (highest value from line 12 for all aquifers evaluated)	100	16.82 [c]	

Aquifer Evaluated Koolau Aquifer

a Maximum value applies to waste characteristics category.
b Maximum value not applicable.
c Do not round to nearest integer.
d Use additional tables.

GROUNDWATER PATHWAY CALCULATIONS

8. Population

Actual Contamination

Well Identifier	Contaminant Detected	Concentration (note units)	Benchmark	(A) Apportioned Population Well Serves	(B) Level* Multip.	(A x B)

Sum (AxB) Level I _____

Sum (AxB) Level II _____

* Multipliers
- Level I = 10
- Level II = 1

Potential Contamination

Distance (Miles)	Total Number of Wells Within Distance Ring	Total Population Served by Wells Within Distance Ring	Distance-Weighted Population Values "Other Than Karst" (Table 3-12)** (A)
0 - 1/4	0	0	0
> 1/4 to 1/2	0	0	0
> 1/2 to 1	0	0	0
> 1 to 2	3	96,750	9,385
>2 to 3	0	0	0
>3 to 4	1	32,250	4,171
		Sum (A)	13,556

Potential contamination = $\frac{\text{Sum (A)}}{10}$ = 1,355.6

** For drinking water wells that draw from a karst aquifer, see the Distance-Weighted Population Values for "Karst" in Table 3-12.

Aquifer Evaluated Koolau Aquifer

HRS Rationale
United States Coast Guard Base Honolulu (USCG Honolulu)
EPA ID #HID984469890

Groundwater Pathway

GW-1: There is no documented release of site associated contaminants to groundwater of the Koolau Aquifer.

GW-2: There is evidence of hazardous substance migration from the Former Bilge Water Dry Well. There is no documentation of placement of a liner beneath the sandblast grit/residual paint chip pile formerly located at the Painting and Repair Area. From Table 3-2 a containment factor value of 10 is assigned.

GW-3: The net annual precipitation in the vicinity of the site is approximately 0.92 inches. From Table 3-4 a net precipitation factor value of 1 is assigned.

GW-4: The depth to the Koolau Aquifer beneath the site is not known, but based on the locations and depths of drinking water wells, the depth to the Koolau Aquifer is believed to be greater than 250 feet. From Table 3-5 a depth to aquifer factor value of 1 is assigned.

GW-5:

Lead	Toxicity:	10,000
	Mobility:	0.01
	Toxicity/Mobility:	100

GW-6: Hazardous Waste Quantity:

Source	Waste Quantity	Tier Evaluated	Value
Painting and Repair Area	85.2 Cubic Yards	Volume	34.08
Waste Oil Tank	5,000 gallons	Volume	10.00
Bilge Water Dry Well	10,000 Gallons	Volume	20.00
	Total		64.08

From Table 2-6 the Hazardous Waste Quantity Factor Value for USCG Honolulu is 10.

GW-7: The nearest drinking water supply well is located approximately 1.25 miles east of the site. From Table 3-11 a nearest well factor value of 5 is assigned.

GW-8: Four well clusters supply groundwater to the municipal drinking water system located within 4 miles of the site. These four well clusters supply an estimated 15 percent of the drinking water needs of Oahu's 860,000 residents. Three of these wells are located between 1 and 2 miles of the site, and the other is located between 3 and 4 miles of the site. Each well cluster provides drinking water to approximately 32,250 people. From Table 3-12, the distance weighted population value for these wells is 13,556. Because these wells are being evaluated as potentially contaminated, the distance weighted population value is divided by 10 for a potential contamination target population value of 1,355.6.

GW-9: Groundwater within 4 miles of the site is not used for irrigation of commercial food or forage crops, watering livestock, as an ingredient in food preparation, for commercial aquaculture, or as a supply for a water recreation area. Per Section 3.3.3 a resource value of 0 is assigned.

GW-10: There are no well head protection areas within 4 miles of the USCG Honolulu site.